COURSE INFORMATION FORM

DISCIPLINE       HVAC
COURSE TITLE     HVAC Special Problems & Projects

CR.HR  1 – 3  LECT HR.  1-3  LAB HR.  _______  CLIN/INTERN HR.  _______  CLOCK HR.  _______

CATALOG DESCRIPTION

Independent study in HVAC/R related areas under the supervision of the faculty member.

PREREQUISITES

HVAC 109, 111, 120 & 135

EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)

Upon completion of this course, the student will be able to:

1. Safely perform job task responsibilities as outlined in the student and faculty member Goals Worksheet.
2. Calculate necessary mathematics per job duties and responsibilities.
3. Allocate resources per job duties and responsibilities.
4. Demonstrate problem-solving techniques per duties and responsibilities.
5. Demonstrate appropriate personal qualities per job requirements.
6. Communicate in a written report all the steps taken during the time working on this project.
GENERAL EDUCATION OUTCOMES (ESO)
Specify which general education outcomes, if any, are substantially addressed by the course. Numbers in parentheses identify the Expected Student Outcomes linked to the specific General Education Outcome.

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>ESO</th>
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PROGRAM-LEVEL OUTCOMES

CAREER AND TECHNICAL EDUCATION PROGRAM OUTCOMES
Specify which Career and Technical program outcomes, if any, are substantially addressed by the course by completing the “Career and Technical Education template” to show the relationship between course and program outcomes to assessment measures.

1. Students will demonstrate the ability to apply foundational skills in an industrial setting safely and to industry guidelines
2. Students will demonstrate professional oral and written communications skills.
3. Students will think critically and apply problem-solving skills.
4. The program will graduate individuals who exhibit competence in the entry-level skills of technical profession of heating, ventilation & air conditioning technology.

CLASS-LEVEL ASSESSMENT MEASURES
Student accomplishment of expected student outcomes may be assessed using the following measures. (Identify which measures are used to assess which outcomes.)

Instructor: (1, 5) based on Goals Worksheet
Student evaluation: (1)
Student-Teacher discussion: (2 – 6)
Assignment/Labs: (2, 4)
Written exam: (4)
Report: (6)
Individual instructors may order this outline as fits the needs of their individual courses. In addition, they may place more emphasis on some areas than on others. What is assured is that this particular list is covered in the course. Other topics may be added to a course as the instructor sees fit, and as time and interest allow. An *asterisk can be used to mark an item as optional.

I. Special problems orientation
   A. Designing the goals worksheet
   B. Estimating cost of project
   C. Keeping a log

II. Four week evaluation progress report

III. Report requirements